

**ABSTRACT****GRINDING BALLS AND THEIR MANUFACTURING METHOD**

5                   The present invention relates to grinding balls made of fritted ceramic comprising a compound of alumina silicate ( $\alpha\text{Al}_2\text{O}_3 \cdot \beta\text{SiO}_2$ ) and in particular mullite ( $3\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2$ ), zirconia ( $\text{ZrO}_2$ ) and alumina ( $\text{Al}_2\text{O}_3$ ).